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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/775,090

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Noriyoshi Kurotsu

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09/10/2009

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EXAMINER

RODRIGUEZ, LENNIN R

ART UNIT

PAPER NUMBER

2625

MAIL DATE

DELIVERY MODE

09/10/2009

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary	Application No. 10/775,090	Applicant(s) KUROTSU ET AL.	
	Examiner LENNIN R. RODRIGUEZ	Art Unit 2625	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 02 July 2009.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 7-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 7-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 7/2/2009 has been entered.

Response to Arguments

2. Applicant's arguments filed on 7/2/2009 have been fully considered but they are not persuasive. Applicant's argument regarding "Wanda '069 and Johnson '802 fail to disclose both (a) changing a printing destination before spooling has completed and before output of the spooled print data has completed to the original destination printer and (b) canceling the output of the spooled print data to the original destination printer without canceling the spooling of the print data" has been fully considered; in response Although Wanda '069 discloses changing to an alternate printer, Wanda '069 does not discloses changing to an alternation printer before said spooling unit has completed the spooling of the print data and does not discloses cancelling the outputting of the spooled print data to the original destination printer without canceling the spooling of the print data, concurrently performing the spooling of a portion of the print data which has

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not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning.

However, Johnson '802 teaches spooling a print job onto storage can be read and sent concurrently to a print engine (column 2, lines 9-29). Since both original printer and alternative printer are all printers, therefore it would have been obvious to a person of ordinary skill at the time the invention was made to include pooling print job to storage at the same time of sending a print job to a printer that the print job is supposed to go to. Since the spooling has not been completed while the print job is being outputted where it is supposed to go to is now the alternative printer after the change of printer. Johnson '802 also teaches cancelling the outputting of the spooled print data to the original destination printer without canceling the spooling of the print data (column 2, lines 9-29, it does not matter if the outputting of print data is finished, the spooling is always going to be performed), concurrently performing the spooling of a portion of the print data which has not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning (column 2, lines 9-29, where the spooling is done concurrently, meaning it is done without restarting, it continuously performs the spooling of print data).

Having a system of Wanda '069 reference and then given the well-established teaching of Johnson '802 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the information processing apparatus of Wanda '069 to include changing to an alternation printer before said spooling unit has completed the spooling of the print data and does not disclose

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cancelling the outputting of the spooled print data to the original destination printer without canceling the spooling of the print data, concurrently performing the spooling of a portion of the print data which has not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning as taught by Johnson '802 because it will maximize the efficiency of the spooling operation by preventing unnecessary usage of network or system resources by retransmitting the whole print data, thus increasing the efficiency of the system.

3. Claim objections have been withdrawn in view of the submitted amendment.

Claim Rejections - 35 USC § 103

4. The text of those sections of Title 35, U.S. Code not included in this action can be found in a prior Office action.

5. Claims 7-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Wanda (US 2002/0131069) in view of Johnson et al. (US 7,468,802).

(1) regarding claims 7 and 13:

Wanda '069 discloses an information processing apparatus (600 and 610 in Fig. 6) for exerting print control (application 601 in Fig. 6), comprising:

a spooling unit (606 in Fig. 6), adapted for spooling print data created and spooled via a print data creation module (paragraph [0101], lines 1-6 and paragraph [0102]lines 1-9, where data already spooled by spooler 604 is stored in another spooler 606);

an outputting unit (611 in Fig. 6), adapted for outputting the spooled print data to an original destination printer (paragraph [0105], lines 4-9, where the spooled data is outputted to the printer); and

a changing unit (paragraph [0208], where a user interface is displayed to the user on the display 207), adapted for changing a printing destination from the original destination printer to an alternation destination printer before said outputting unit has completed the outputting of the spooled print data to the original destination printer (paragraph [0207]-[0208], where the user will be able to change from a default printer to an alternate printer to send the print job to before the completion of outputting spooled data since there is an error in the middle of the transmission the outputting is not finished before the switch of destination);

a control unit (200 in Fig. 2), adapted for canceling the outputting of the spooled print data to the original destination printer (paragraph [0211], where by changing the destination printer the outputting of spooled data is stopped to be re-directed), and performing the outputting of a portion of the print data spooled before the changing in said changing unit to the alternation destination printer (paragraph [0200], where the data is not re-spooled to the alternate device, it is just outputted form the spooler since it was previously spooled).

Although Wanda '069 discloses changing to an alternate printer, Wanda '069 does not discloses changing to an alternation printer before said spooling unit has completed the spooling of the print data and does not discloses cancelling the outputting of the spooled print data to the original destination printer without canceling

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the spooling of the print data, concurrently performing the spooling of a portion of the print data which has not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning.

However, Johnson '802 teaches spooling a print job onto storage can be read and sent concurrently to a print engine (column 2, lines 9-29). Since both original printer and alternative printer are all printers, therefore it would have been obvious to a person of ordinary skill at the time the invention was made to include pooling print job to storage at the same time of sending a print job to a printer that the print job is supposed to go to. Since the spooling has not been completed while the print job is being outputted where it is supposed to go to is now the alternative printer after the change of printer. Johnson '802 also teaches cancelling the outputting of the spooled print data to the original destination printer without canceling the spooling of the print data (column 2, lines 9-29, it does not matter if the outputting of print data is finished, the spooling is always going to be performed), concurrently performing the spooling of a portion of the print data which has not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning (column 2, lines 9-29, where the spooling is done concurrently, meaning it is done without restarting, it continuously performs the spooling of print data).

Having a system of Wanda '069 reference and then given the well-established teaching of Johnson '802 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the information processing apparatus of Wanda '069 to include changing to an alternation printer before said

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spooling unit has completed the spooling of the print data and does not disclose cancelling the outputting of the spooled print data to the original destination printer without canceling the spooling of the print data, concurrently performing the spooling of a portion of the print data which has not yet been spooled such that the spooling is performed after a portion of the print data already spooled without restarting from the beginning as taught by Johnson '802 because it will maximize the efficiency of the spooling operation by preventing unnecessary usage of network or system resources by retransmitting the whole print data, thus increasing the efficiency of the system.

(2) regarding claims 8 and 14:

Wanda '069 further discloses an ID creation unit, adapted for creating a first ID issued correspondingly to the print data created via the print data creation module (paragraph [0111], lines 1-3) and a second ID to the print data spooled by said spooling unit apart from said first ID (paragraph [0129], lines 10-13, where an ID different from the first one its being assigned by the spooler); and

a management unit (605 in Fig. 6), adapted for performing job management corresponding to the second ID created by said ID creation unit (paragraph [0125]).

(3) regarding claims 9, and 15:

Wanda '069 further discloses wherein the first ID is an ID issued via an OS (paragraph [0111], lines 1-3, where the job ID it's being obtained from a data structure which the OS is controlling).

(4) regarding claims 10, and 16:

Wanda '069 discloses all the subject matter as described above except wherein, on alternation or resending of said print data, said control unit continues the spooling of the data already spooled before the alternation or resending.

However, Johnson '802 teaches wherein, on alternation or resending of said print data, said control unit continues the spooling of the data already spooled before the alternation or resending (column 2, lines 9-29, where the concurrently spooled data means exactly continuously spooling same data at the same time of outputting it).

Having a system of Wanda '069 reference and then given the well-established teaching of Johnson '802 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the information processing apparatus of Wanda '069 to include wherein, on alternation or resending of said print data, said control unit continues the spooling of the data already spooled before the alternation or resending as taught by Johnson '802 because it will maximize the efficiency of the spooling operation by preventing unnecessary usage of network or system resources by retransmitting the whole print data, thus increasing the efficiency of the system.

(5) regarding claims 11 and 17:

Wanda '069 further discloses a notification unit (606 in Fig. 6), adapted for notifying said second ID to an alternation destination printer specified of a plurality of printers via an alternate setting screen (paragraph [0207]-[0208], where the user will be able to select from plurality of printers an alternate printer to send the print job to);

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an identification unit, adapted for identifying the print data to be alternated based on said second ID notified by said notification unit (paragraph [0129], lines 10-13, where the job ID is identified); and

a reading unit (611 in Fig. 6), adapted for reading the print data identified by said identification unit (paragraph [0129], lines 10-13),

Wanda '069 discloses all the subject matter as described above except specifically teaching wherein said control unit concurrently performs the spooling of the print data by said spooling unit and the reading by said reading unit.

However, Johnson '802 teaches wherein said control unit concurrently performs the spooling of the print data by said spooling unit and the reading by said reading unit (column 2, lines 21-26, where a print job can be printed at the same it is stored, so it doesn't resend a job to begin the printing operation).

Having a system of Wanda '069 reference and then given the well-established teaching of Johnson '802 reference, it would have been obvious to one having ordinary skill in the art at the time the invention was made to modify the information processing apparatus of Wanda '069 to include wherein said control unit concurrently performs the spooling of the print data by said spooling unit and the reading by said reading unit as taught by Johnson '802 because it will maximize the efficiency of the spooling operation by preventing unnecessary usage of network or system resources by retransmitting the whole print data, thus increasing the efficiency of the system.

(6) regarding claims 12 and 18:

Wanda '069 further discloses wherein each of said plurality of printers has port information set up correspondingly (it is inherent that the system would have information about the port being setup, necessary every time a different printer (alternate) its being used).

Conclusion

Any inquiry concerning this communication or earlier communications from the examiner should be directed to LENNIN R. RODRIGUEZ whose telephone number is (571)270-1678. The examiner can normally be reached on Monday - Thursday 7:30am - 6:00pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, King Poon can be reached on (571) 272-7440. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

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/King Y. Poon/

Supervisory Patent Examiner, Art Unit 2625

/Lennin R Rodriguez/

Examiner, Art Unit 2625